

INITIAL REVIEW EXPOSURE REPORT

P-08-0088

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Assessor: *Delpire*

Search ()Y

Focus Date: *12/3/07*

SAT

Health: *3*

CRSS Date: 11/27/07

Eco: *3*

SAT Rep:

Submitter:

Max. PV
(kg/yr)Manuf.
Import

Use:

Emulsifier

Analog:

Chemical Name:

Trade Name:

Nano:

CAS:

Structure Comments:

Structure:

2007-12-03 10:32



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STATE	NEAT: [REDACTED] MFG: [REDACTED]				EPI ESTIMATIONS			
FORMULA:		[REDACTED] % < 500		[REDACTED]		[REDACTED]		
MOL WT:		[REDACTED] % < 1000		[REDACTED]		[REDACTED]		
Submitted		ICB-CRSS		Method/Ref				
MP (C)		[REDACTED]				174.01		
BP (C)		>500 @ 760 torr		Salt		417.39 @ 760 torr		
@ P (torr)								
VP (torr)		<0.045		Free acid		8.95E-008		
S-H2O (g/L)		Dispersible		Use		[REDACTED] mg/L		
Log Kow						0.24		
pH, pKa				Log Koc		1.05		
Light Absorption (nm)		<>290		Log BCF		BCF 0.50 3.16		
Solvent:				H (atm m3/mol)		1.82E-006		
HYDRO t(1/2) @pH7, 25C		da		Persistence / Bioaccumulation		3/2		
Volatilization (H2O) t(1/2)		River		931.30 hr		Lake 288.13 da		
AOP t(1/2) (hr)		OH		O3		Total		
MITI	Linear Prob: 0.08		Nonlinear Prob: 0.00					
BIODEG	Linear Prob: -1.38		Nonlinear Prob: 0.00		Survey Ult: RECAL		Survey Prim: WK-MO	
STP (% Removal)	Tot	1.96	Biod	0.09	Ads	1.76	Air: 0.10	
REMOVAL IN WWT/POTW % Overall [REDACTED]								
				CATEGORY				
				RATING	1	2	3	4
Sorption					low	moderate	strong	v.strong
Stripping					extensive	moderate	low	negligible
Biodegradation		Removal			unknown	high	moderate	negligible
		Destruction			unknown	complete	partial	
Comments:								
AEROBIC BIODEGRADATION								
Ultimate			<= days	weeks	months	> months		
Primary			<= days	weeks	months	> months		
Comments: OECD 301C(MITI): 0% (HPLC)/28d NRB								

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				CATEGORY			
			RATING	1	2	3	4
ANAEROBIC BIODEGRADATION	Ultimate			<= days	weeks	months	> months
	Primary			<= days	weeks	months	> months

Comments:

	HYDRO (da)						
HYDROLYSIS		A.		<= mins	hours	days	=> months
(t(1/2) @ pH 7, 25 °C)		B.		<= mins	hours	days	=> months

Comments:

SORPTION TO SOIL & SEDIMENT		v.strong	strong	moderate	low
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Comments:

MIGRATION TO GROUND WATER		negl	slow	moderate	rapid
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Comments:

VOLATILIZATION	Rivers (hr)	931		negl	slow	moderate	rapid
(w/o sediment)	Lakes (da)	288		negl	slow	moderate	rapid

Comments:

PHOTOLYSIS	A. Direct			negl	slow	moderate	rapid
	B. Indirect			negl	slow	moderate	rapid

Comments:

	AOP t(1/2) hr						
ATMOSPHERIC	A. OH			negl	slow	moderate	rapid
OXIDATION	B. O3			negl	slow	moderate	rapid

Comments:

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ANALOG DATA FORM

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		RATING		PHOTO	RATING
ANAEROBIC BIODEGRADATION	Ultimate	4		DIRECT	
	Primary			INDIRECT	

Comments:

			AT OX	
HYDROLYSIS	A.		OH	
(pH 7, 25 C)	B.		O3	

Comments:

SORPTION TO SOIL & SEDIMENT	3		
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Comments:

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MIGRATION TO GROUND WATER	3		Persist/Bioacc	2/1
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BIO COMMENT OECD 301D(Closed Btl): 22%/28d NRB.

	Nano:	MOL WT	FORM
Structure:			
			Log Kow

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%

Sorp

1-2

Strip

4

Rem

4

Dest

Ult

4

Prim

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ANALOG DATA FORM

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		RATING	PHOTO	RATING
ANAEROBIC BIODEGRADATION	Ultimate	4	DIRECT	
	Primary		INDIRECT	

Comments:

		AT OX	
HYDROLYSIS	A.	OH	
(pH 7, 25 C)	B.	O3	

Comments:

SORPTION TO SOIL & SEDIMENT	4		
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Comments:

MIGRATION TO GROUND WATER	4	Persist/Bioacc	
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BIO COMMENT

	Nano:	MOL WT	FORM
Structure:			
			Log Kow

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%	
Sorp	1-2
Strip	3
Rem	4
Dest	
Ult	4
Prim	

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P080088

Assessor: Delpire

ENVIRONMENTAL RELEASES

Scenario#: 1

Number of Release Sites: 1

Release Activity: max ADR, max PDM, max LADD/LADC

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)

	Non-sludge/Sludge			
Release Days/yr:				
Per Site Release:				
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

Consumer use expected? No, consumer use is not expected.

Exposure Based Criteria

Parameter	Exp Based	Persistent	Exceedance Value
Drinking (Surface) Water Dose (mg/kg/day)	N/A	No	
Fish Ingestion Dose (mg/kg/day)	N/A	No	
Inhalation Dose (mg/kg/day)	N/A	No	
Groundwater Dose (mg/kg/day)	N/A	No	
Surface Water Release After Treatment (kg/yr)	N/A	No	
Total Release After Treatment (kg/yr)	N/A	No	

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Chemical ID: P080088

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

Number of Sites: 1

RELEASE ACTIVITY: max
ADR, max PDM, max
LADD/LADC

SIC-CODE DESCRIPTION: [REDACTED]

SIC-CODE (S): [REDACTED]

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
ALL	10	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}			mg/kg/day			mg/kg/day
LADC _{pot}			mg/L			mg/kg
Acute						
ADR _{pot}			mg/kg/day			mg/kg/day

SIC Code Comments:

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SIC CODE EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

RELEASE ACTIVITY: [REDACTED] max ADR, max PDM, max LADD/LADC

SIC CODE DESCRIPTION: [REDACTED]

ASSOCIATED SIC CODES: [REDACTED] 9

SIC CODE RESULTS

COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Loading (kg/site/day)	Waste Water Treatment (%)	High/Avg Analysis
1000.00	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 1

RELEASE ACTIVITY [REDACTED] max ADR, max PDM, max LADD/LADC

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites: [REDACTED]

Per Site Fugitive Release:

[REDACTED] kg/site/day

Fugitive Release Days per Year:

[REDACTED] days

% Removal via Fugitive Release:

[REDACTED] %

Total Fugitive Release:

[REDACTED] kg/yr

Max Annual Average Air Concentration
(Fugitive):[REDACTED] $\mu\text{g}/\text{m}^3$ Max 24 Hour Average Air
Concentration(Fugitive):[REDACTED] $\mu\text{g}/\text{m}^3$

Per Site Stack Release:

[REDACTED] kg/site/day

Stack Release Days per Year:

[REDACTED] days

% Removal via Stack Release:

[REDACTED] %

Total Stack Release:

[REDACTED] kg/yr

Max Annual Average Air Concentration (Stack):

[REDACTED] $\mu\text{g}/\text{m}^3$

Max 24 Hour Average Air Concentration (Stack):

[REDACTED] $\mu\text{g}/\text{m}^3$

Exposure Units	Results (Stack)	Results (Fugitive)	ASSUMPTIONS			
			ED (years)	AT (years)	BW (kg)	Inh. Rate (m ³ /hr)
Cancer						
LADD _{pot} (mg/kg/day)	[REDACTED]	[REDACTED]	30.00	75.00	71.80	0.55
LADC _{pot} (mg/m ³)	[REDACTED]	[REDACTED]	30.00	75.00	NA	NA
Acute						
ADR _{pot} (mg/kg/day)	[REDACTED]	[REDACTED]	NA	1 day	71.80	0.55

Inhalation Comments:

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Stack Parameter Data

Stack Height 10.00 m
Inside Stack Diameter: 0.10 m
Stack Gas Exit Velocity: 0.10 m/sec
Stack Gas Temperature: 293.00 K

Fugitive Parameter Data

Release Height: 3.00 m
Length of Release Opening: 10.00 m
Width of Release Opening: 10.00 m

Meteorological and Terrain Information:

Surrounding Land Use: Rural
Terrain Height: 0.00 m
Distance to Residence of Interest: 100.00 m
Meteorological Class: Full
Stability Class: NA
Wind Speed: NA

Downwash Information:

Facility Length: NA m
Facility Width: NA m
Facility Height: NA m